

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A method of sensing the concentration of O<sub>3</sub> in a gas mixture using a semiconductor gas sensor having a resistivity sensitive to O<sub>3</sub>, which comprises increasing the sensor operating temperature to a first temperature to allow the sensor surface to reset then decreasing the sensor operating temperature to a second temperature and analyzing the resultant resistance of the sensor at the second temperature, wherein the sensor is a layer of WO<sub>3</sub>, the first temperature is ~~400~~ 500 to 800 °C, the second temperature is 200 to 500 °C, and the first temperature is higher than the second temperature.
2. (Cancelled).
3. (Previously Presented) A method according to claim 1 wherein the sensor resistance is analyzed as a function of time.
4. (Cancelled).
5. (Cancelled).
6. (Cancelled).
7. (Cancelled).